

1     **STRUCTURE REMOVAL BY EXPLOSIVES**  
2     **March 13, 1995**

3     **Construction Requirements**

4     If the Contractor elects to use explosives to accomplish any or all of the removal  
5     work, the Contractor shall comply with the requirements of Section 1-07.22, submit a  
6     detailed blasting plan to the Engineer for approval, and obtain permits and approvals  
7     from the applicable governmental agencies. All work shall be accomplished in  
8     accordance with the terms of the permits.

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10    A licensed, experienced explosives expert shall supervise the drilling, loading, and  
11    blasting operations. Traffic shall not be allowed in the vicinity during blasting  
12    operations. The Contractor shall be responsible for all damage to public and private  
13    property caused by the use of explosives. Damage shall be repaired, as a first order  
14    of work, by the Contractor at the Contractor's expense. The repair shall be as  
15    directed by the Engineer.

16  
17    The blasting plan shall show all stages of the removal work; the explosive type; the  
18    explosive quantity; firing sequence; details of drill holes; explosive placement; detail  
19    of how shock waves are kept to a minimum; and how debris is controlled. The  
20    blasting plan shall also list the name and address of the licensed explosives expert,  
21    safety procedures (including methods of storage and transportation), warning  
22    signals, signs, accidental discharge prevention safeguards, and the procedures for  
23    notifying the Engineer of impending blasting.

24  
25    Any drawings required as part of the blasting plan shall be on sheets measuring 216  
26    by 279 millimeters, 279 millimeters by 432 millimeters, or 610 millimeters by 915  
27    millimeters. The blasting plan shall be submitted far enough in advance of actual  
28    need to allow for the review process by the State, which may involve rejection,  
29    revision, or resubmittal. Unless otherwise stated in the contract, the Engineer will  
30    require up to 30 calendar days from the date the submittals are received until they  
31    are sent to the Contractor. This time will increase if the drawings submitted do not  
32    meet the contract requirements or contain insufficient details.

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34    If more than 30 calendar days are required for the Engineer's review of any individual  
35    submittal or resubmittal, an extension of time will be considered in accordance with  
36    Section 1-08.8.

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38    The Contractor shall obtain the Engineer's written approval of the drawings before  
39    proceeding with the work they represent. This approval shall neither confer upon the  
40    State nor relieve the Contractor of any liability of damage caused by the use of  
41    explosives. The Contractor shall bear all risk and all costs of any work delays  
42    caused by nonapproval of these drawings or plans.

43  
44    **Payment**

45    The lump sum contract price for \*\*\* \$\$1\$\$ \*\*\* shall be full pay for performing the  
46    work as specified.